



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Kevin J. Knight

RECEIVED

Serial No.:

10/054,164

JUL 1 1 2003

Filed:

January 22, 2002

**Technology Center 2100** 

Art Unit:

2141

Patent Examiner:

Kenneth R. Coulter

Title:

METHOD AND APPARATUS FOR SELECTING, MODIFYING

AND SUPERIMPOSING ONE IMAGE ON ANOTHER

July 2, 2003

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Sir:

Applicant submits herewith copies of documents known to applicant and his counsel which he believes may be material to the examination of this application and in respect of which there may be a duty to disclose in compliance with the requirements of 37 C.F.R. §1.56.

- 1. The subject application is a continuation of US Patent Application Serial No. 09/479,284, which was filed on January 6, 2000 and was issued on February 5, 2002 as US Patent No. 6,344,853. The following references were cited with respect to this patent:
  - a. Parkyn, 4,675,725, 06-1987
  - b. Hattori et al., 4,706,075, 11-1987

- c. Blancato, 4,731,743, 03-1988
- d. Chang, 4,868,552, 09-1989
- e. Kinoshita et al., 5,109,272, 04-1992
- f. Yamaguchi, 5,130,801, 07-1992
- g. Bartlett, 5,283,560, 02-1994
- h. Kagawa, 5,357,601, 10-1994
- i. Homma et al., 5,383,111, 01-1995
- j. Fellous, 5,479,597, 12-1995
- k. Jarrige et al., 5,490,080, 02-1996
- 1. Choi, 5,598,224, 01-1997
- m. Sekine et al, 5,614,945, 03-1997
- n. Korszun, 5,680,528, 10-1997
- o. Hassan et al., 5,689,562, 11-1997
- p. Nakatani et al., 5,805,237, 09-1998
- q. Hill, 5,970,471, 10-1999
- r. Fantone et al., 6,026,215, 02-2000
- s. EP 0414222, 04-1996
- t. EP 0677954, 10-1995
- u. JP 4021077, 01-1992
- v. JP 6027933, 02-1994
- w. JP 6118923, 04-1994
- x. JP 62166475, 07-1987
- y. JP 09220203, 08-1997

z. EP1 124200A2, 08-2001

3

- aa. BCEnet Design (www.hypermart.net/superimpose/).
- bb. BRANDERS.COM (www.Branders.com).
- cc. Blackwell, M. et al., "Performance and accuracy experiments with 3D and 2D image overlay systems", Second Annual International Symposium on Medical Robotics and Computer Assisted Surgery, MRCAS '95 1995, pp. 312-317.
- dd. Evangelest, C.J., et al., "Display architecture to allow rapid updating of a bit-mapped display with automatic regeneration of affected elements", IBM Technical Disclosure Bulletin, vol. 27, No. 1B, Jun. 1984, pp. 847-848.
- ee. Fleming, J.S., "A general software package for the handling of medical images", Journal of Medical Engineering & Technology, vol. 15, No. 4-5, Jul.-Oct. 1991, pp. 162-169.
- ff. Huller, F., et al., "Workstation transfers graphics data processing to the periphery", Elektronik, vol. 32, No. 9, May 6, 1983, pp. 75-79.
- gg. Ichikawa, K., et al., "Processing map and drawing data on MAP VISION", NTT R&D, vol. 41, No. 5, 1992, pp. 609-618.
- hh. Sato, K., "Characteristics of kinoform by LCD and application to display the animated color 3D image", The International Society for Optical Engineering, vol. 2176, 1994, pp. 42-9.
  - ii. TOMAX (www.tomaxusa.com/e-sample/).
- jj. Uenohara, M., et al., "Vision-based object registration for real-time overlay", ComputerVison, Virtual Reality and Robotics in Medicine. First International Conference, CVRMed '95. Proceedings 1995, pp. 13-22.
- kk. Uenohara, M., et al., "Vision-based object registration for real-time image overlay", Computers in Biology and Medicine, vol. 25, No. 2, Mar. 1995, pp. 249-260.
- 11. Van Gelder, A., "Doing it with mirrors; low budget stereo graphics", The International Society for Optical Engineering, vol. 2178, 1994, pp. 68-77.
- mm. Vinogradov, K.M., "Some problems arising during the construction of a three-dimensional model of artificial and natural objects by means of computer", Soviet Journal of Optical Technology, vol. 58, NO. 11, Nov. 1991, pp. 746-749.
  - nn. The Virtual Family Bragbook (www.noteworthydesigns.com).
  - oo. Vistech Home Page (www.mrangel.com).
- pp. Weili, R., "BGI bitmap image overlay processing", Min-i-Micro Syst. (China), vol. 14, No. 6, 1993, pp. 38-41.

- 2. U.S. Patent Application Serial No. 09/784,395 was filed on February 15, 2001 in the names of Conley Wilson Gilles and Thomas Alan Gingrup, and was subsequently published as US Patent Application Publication No. US 2001/0050690 on December 13, 2001. This application has been examined by the USPTO and an initial Office Action was issued May 7, 2003. A copy of this May 7, 2003 Office Action is enclosed. This Office Action cited the following references as with respect to this application:
  - a. Stansfield et al., 5,140,314, 08-1992
  - b. Yoda, Kiyoshi, 5,515,268, 05-1996
  - c. Hassan et al., 5,689,562, 11-1997
  - d. Steinberg, Eran, 5,862,218, 01-1999
  - e. Oberg, Larry B., 5,870,771, 02-1999
  - f. Halliday et al., 5,880,740, 03-1999
  - g. Romano et al., 5,920,685, 07-1999
  - h. Hill, 5,970,471, 10-1999
  - i. Dries et al., 5,986,670, 11-1999
  - j. Hekmatpour et al., 5,982,350, 11-1999
  - k. Bornstein, Raanan, 6,144,388, 11-2000
  - 1. Sivan et al., 6,281,874, 08-2001
  - m. Sawano et al., 6,285,381, 09-2001
  - n. Miyahara et al., 6,341,350, 01-2002
  - o. Knight, Kevin J., 6,344,853, 02-2002
  - p. Ramsey et al., 6,353,770, 03-2002
  - q. Enomoto, Jun, 6,356,339, 03-2002
  - r. Platzker et al., 6,388,654, 05-2002
  - s. Ohki et al., 6,392,659, 05-2002

- t. Berger et al., 6,414,693, 07-2002
- u. Akasawa et al., 6,483,540, 11-2002
- v. von Rosen et al., 6,493,677, 12-2002
- w. Cook, David Philip, 6,496,744, 12-2002
- x. Kimura et al., 6,519,351, 02-2003
- 3. U.S. Patent Application Serial No. 09/784,395 of Giles et al. claims priority of a Provisional Application No. 60/157,173, which was filed on Sept. 30, 1999. A copy of this Provisional Application is enclosed herewith.
- 4. Enclosed with this Statement, the Applicant further includes copies of two (2) press releases of Macromedia dated April 14, 1998 and August 17, 1998. These two releases related to a variety of software tools. The undersigned is seeking to secure a copy of this software (believed to be available in disc form) and, when received, will file same in the USPTO.

Form PTO/SB/08A is enclosed in duplicate. The undersigned understands that the current practice of the USPTO is not to require the submission of copies of US Patents that are listed on the PTO/SB/08A form and, therefore, has not submitted copies of the listed US Patents. If the Examiner would like to receive copies of the listed US Patents, he is requested to give the undersigned a telephone call to so request same. Copies of the cited Foreign Patents and publications may be found in the file of the above identified parent application of the subject application.

Applicant does not waive any rights to take appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application.

This statement should not be construed as a representation that more material information does not exist or that an exhaustive search of the relevant art has been made.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application are respectfully requested.

Respectfully submitted,

Cowan, Liebowitz & Latman, P.C.

By:

R. Lèwis Gable

Registration No. 22,479

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INFORMATION DISCLOS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet | 1 | of | 5

Complete if Known					
Application Number	10/054,164				
Filing Date	January 22, 2002				
First Named Inventor	Kevin J. Knight				
Group Art Unit	2141				
Examiner Name	Kenneth R. Coulter				
Attorney Docket Number	24544.01				

#### **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.1	U.S. Patent D Number	Kind Code <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant
			(if known)		MIVI-DD-TTTT	Figures Appear
+		2001/0050690	0A1	Giles et al.	12-2001	
		2001/003110		Lunetta et al.	10-2001	
		3,987,243		Schwartz	10-1976	
		4,261,012		Maloomian	04-1981	RECEIVED
1		4,276,570		Burson, et al.	06-1981	TIEUE: 1
		4,297,724		Masuda, et al.	10-1981	1 1 2003
		4,482,960		Pryor	11-1984	<del>JUL 1 1 20</del> 03
		4,486,774		Maloomian	12-1984	
		4,539,585	11	Spackova, et al.	09-1985	Technology Center 21
		4,602,280		Maloomian	07-1986	
		4,617,592		MacDonald	10-1986	
		4,675,725		Parkyn	06-1987	
$\neg \uparrow$		4,706,075		Hattori et al.	11-1987	
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		4,730,260		Mori, et al.	03-1988	
		4,731,743		Blancato	03-1988	
		4,769,700		Pryor	09-1988	
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		4,868,552		Chang	09-1989	
		5,060,171		Steir, et al.	10-1991	
		5,109,272	$\rightarrow$	Kinoshita et al.	04-1992	
$\overline{}$		5,130,801		Yamaguchi	07-1992	
		5,140,314		Stansfield et al.	08-1992	
		5,202,837	1 1	Coe et al.	04-1993	
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		5,273,038		Beavin	12-1993	
		5,283,560		Bartlett	02-1994	
		5,357,439	$\rightarrow$	Matsuzaki et al.	10-1994	<del></del>
<del>-  </del>		5,357,601	++	Kagawa	10-1994	
		5,383,111	$\rightarrow$	Homma et al.	01-1995	
-+		5,479,597		Fellous	12-1995	
$\overline{}$		5,490,080	<del>-   -  </del>	Jarrige et al.	02-1996	
		5,495,568	++	Beavin	02-1996	· · · · · · · · · · · · · · · · · · ·
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Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Sheet 2 of 5

Complete if Known					
Application Number	10/054,164				
Filing Date	January 22, 2002				
First Named Inventor	Kevin J. Knight				
Group Art Unit	2141				
Examiner Name	Kenneth R. Coulter				
Attorney Docket Number	24544.01				

#### U.S. PATENT DOCUMENTS

				U.S. PATENT DOCI	JMENIS	
Examiner nitials*	Cite No.1	U.S. Patent	t Document Kind Code <sup>2</sup>	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
กแลเร	140.*	Number	(if known)	Or Orica Document	MM-DD-YYYY	Figures Appear
		5,515,268		Yoda, Kiyoshi	05-1996	
		5,598,224		Choi	01-1997	
		5,614,945		Sekine et al	03-1997	
		5,680,528		Korszun	10-1997	
	_	5,689,562		Hassan et al.	11-1997	RECEIVE
		5,745,661		Koh, et al.	04-1998	TEOLIVE
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		5,845,261		McAbian	12-1998	JUL 1 1 200B
		5,850,222		Cone, D.	12-1998	
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		5,862,218		Steinberg, Eran	01-1999	- 37 - 2114
		5,870,771		Oberg, Larry B.	02-1999	
		5,880,740		Halliday et al.	03-1999	
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		5,956,737		King et al.	09-1999	
		5,966,310		Maeda et al.	10-1999	
		5,970,471		Hill	10-1999	
		5,982,350		Hekmatpour et al.	11-1999	
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		6,023,679		Acebo et al.	02-2000	
		6,026,215		Fantone et al.	02-2000	
		6,026,371		Beck et al.	02-2000	
		6,083,267		Motomiya et al	07-2000	
		6,144,388		Bornstein, Raanan	11-2000	
		6,195,101		Ghislain Bossut et al.	02-2001	
		6,281,874		Sivan et al.	08-2001	
		6,285,381		Sawano et al.	09-2001	
		6,307,568		Rom, E.	10-2001	
		6,341,350		Miyahara et al.	01-2002	
$\neg$		6,344,853		Knight, Kevin J.	02-2002	
		6,353,770		Ramsey et al.	03-2002	
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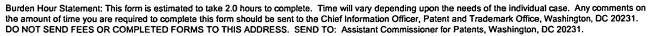
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Application Number	10/054,164	_				
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First Named Inventor	Kevin J. Knight					
Group Art Unit	2141					
Examiner Name	Kenneth R. Coulter					
Attorney Docket Number	24544.01	_				

*				U.S. PATENT DOCI	JMENTS	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document  Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		6,356,339		Enomoto, Jun	03-2002	
		6,388,654		Platzker et al.	05-2002	
		6,392,659		Ohki et al.	05-2002	DEOEWED
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		6,483,540		Akasawa et al.	11-2002	
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		6,519,351		Kimura et al.	02-2003	Technology Center 2100
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			EP 0414222			04-1996	гідагез Арреаг			
			EP 0677954			10-1995				
			JP 4021077			01-1992				
			JP 6027933			02-1994				
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			JP 09220203			08-1997				
			EP1 124200A2			08-2001				

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(use as many sheets as necessary) Examiner Name

eet 4 of 5 Attorney Docket Num

Examiner Name Kenneth R. Coulter
Attorney Docket Number 24544.01

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				Application Number	10/054,164	
INFORMATION DISCLOSURE			CLOSURE	Filing Date	January 22, 2002	
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			/////	Group Art Unit	2141	
(use as many sheets as necessary)			necessary)	Examiner Name	Kenneth R. Coulter	
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